

INTERSTITIAL IMAGING APPARATUS

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Abstract

PURPOSE: To provide an interstitial imaging apparatus which can monitor an inserted device in the human body to be inspected without physically connecting to a tracker/display and without using an ionizing radiation.

CONSTITUTION: In the interstitial apparatus 120, a self-contained type RF transmitter is fixed. The transmitter is composed of a power generating means, a power conversion means such as an oscillator for converting the generated power to RF signals, and a RF radiating means such as a synchronized transmitting coil for radiating the RF signals. A tracker/display 108 receives the RF signals through a receiving coil 160 to calculate a position of the transmitter, and this position is displayed by signals 152 through superimposing to a medically diagnostic image on a monitor 151. Before operating the apparatus, the electric power generating means can be energized by an inductive coupling, a photoelectric motive power, or directly connecting to the outside power source.

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